

STATE OF SOUTH CAROLINA

(Caption of Case)

In the Matter of

Application of Duke Energy Carolinas, LLC for
Approval of Decision to Incur Nuclear Generation
Pre-Construction Costs

BEFORE THE
PUBLIC SERVICE COMMISSION
OF SOUTH CAROLINA

COVER SHEET

DOCKET

NUMBER: 2007 - 440 - E

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Duke

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4-14-08

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(Please type or print)

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DOCKETING INFORMATION (Check all that apply)

☐ Emergency Relief demanded in petition

☐ Request for item to be placed on Commission's Agenda expeditiously

☐ Other:

INDUSTRY (Check one)

NATURE OF ACTION (Check all that apply)

- | | | | |
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| <input checked="" type="checkbox"/> Electric | <input type="checkbox"/> Affidavit | <input type="checkbox"/> Letter | <input type="checkbox"/> Request |
| <input type="checkbox"/> Electric/Gas | <input type="checkbox"/> Agreement | <input type="checkbox"/> Memorandum | <input type="checkbox"/> Request for Certification |
| <input type="checkbox"/> Electric/Telecommunications | <input type="checkbox"/> Answer | <input type="checkbox"/> Motion | <input type="checkbox"/> Request for Investigation |
| <input type="checkbox"/> Electric/Water | <input type="checkbox"/> Appellate Review | <input type="checkbox"/> Objection | <input type="checkbox"/> Resale Agreement |
| <input type="checkbox"/> Electric/Water/Telecom. | <input type="checkbox"/> Application | <input type="checkbox"/> Petition | <input type="checkbox"/> Resale Amendment |
| <input type="checkbox"/> Electric/Water/Sewer | <input type="checkbox"/> Brief | <input type="checkbox"/> Petition for Reconsideration | <input type="checkbox"/> Reservation Letter |
| <input type="checkbox"/> Gas | <input type="checkbox"/> Certificate | <input type="checkbox"/> Petition for Rulemaking | <input type="checkbox"/> Response |
| <input type="checkbox"/> Railroad | <input type="checkbox"/> Comments | <input type="checkbox"/> Petition for Rule to Show Cause | <input type="checkbox"/> Response to Discovery |
| <input type="checkbox"/> Sewer | <input type="checkbox"/> Complaint | <input type="checkbox"/> Petition to Intervene | <input type="checkbox"/> Return to Petition |
| <input type="checkbox"/> Telecommunications | <input type="checkbox"/> Consent Order | <input type="checkbox"/> Petition to Intervene Out of Time | <input type="checkbox"/> Stipulation |
| <input type="checkbox"/> Transportation | <input type="checkbox"/> Discovery | <input checked="" type="checkbox"/> Prefiled Testimony | <input type="checkbox"/> Subpoena |
| <input type="checkbox"/> Water | <input type="checkbox"/> Exhibit | <input type="checkbox"/> Promotion | <input type="checkbox"/> Tariff |
| <input type="checkbox"/> Water/Sewer | <input type="checkbox"/> Expedited Consideration | <input type="checkbox"/> Proposed Order | <input type="checkbox"/> Other: |
| <input type="checkbox"/> Administrative Matter | <input type="checkbox"/> Interconnection Agreement | <input type="checkbox"/> Protest | |
| <input type="checkbox"/> Other: | <input type="checkbox"/> Interconnection Amendment | <input type="checkbox"/> Publisher's Affidavit | |
| | <input type="checkbox"/> Late-Filed Exhibit | <input type="checkbox"/> Report | |

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ROBERT GUILD

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April 13, 2008

Mr. Charles Terreni
Chief Clerk
Public Service Commission of South Carolina
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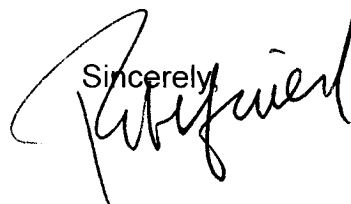
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COMMISSION

Re: Application of Duke Energy Carolinas, LLC for Approval of Decision to Incur
Nuclear Generation Pre-Construction Costs
Docket No. 2007-440-E

Dear Mr. Terreni:

Enclosed please find for filing and consideration 25 copies of the Surrebuttal
Testimony of Peter A. Bradford for Friends of the Earth, together with Certificate of
Service reflecting service upon all parties of record. As agreed, I have transmitted
today an electronic copy of the attached testimony to all counsel.

With kind regards I am

Sincerely,

Robert Guild

Encl.s
CC: All counsel

BEFORE
THE PUBLIC SERVICE COMMISSION OF
SOUTH CAROLINA
DOCKET NO. 2007-440-E

Application of Duke Energy Carolinas, LLC for)
Approval of Decision to Incur)
Nuclear Generation Pre-Construction Costs)

SC PUBLIC SERVICE
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SURREBUTTAL TESTIMONY OF PETER A. BRADFORD
FOR FRIENDS OF THE EARTH

1 **Q. WHAT IS THE PURPOSE OF YOUR SURREBUTTAL TESTIMONY?**

2 A. I am responding to the testimony of Julius Wright on behalf of Duke Energy
3 Carolinas.

4
5 **Q. PLEASE PROVIDE AN OVERVIEW OF YOUR RESPONSE.**

6 A. Mr. Wright's testimony offers up two central propositions that contradict each
7 other. On one hand, he asserts that this proceeding does nothing of
8 consequence to shift risk to South Carolina customers while on the other
9 hand he asserts that – if the Commission does not make the requested
10 finding – South Carolina's opportunity to preserve the nuclear option for the
11 2018 time frame will be lost. He is understandably silent as to just why the
12 nuclear option cannot be preserved if the Commission does not make the
13 requested finding, but the answer is clear. It is because the finding requested
14 in this proceeding relieves the investors and lenders of risks that they are
15 unwilling to bear and does so by shifting those risks to the customers. If the
16 Commission does not make the requested finding – which shifts much of the
17 risk that the South Carolina share of the \$230 million plus the long lead time
18 item procurement costs to the customers – then the project will not go
19 forward. So Mr. Wright is right about the second proposition but wrong about
20 the first.

1 **Q. WHY DO YOU BELIEVE THAT SHIFTING RISKS AWAY FROM**
2 **INVESTORS AND LENDERS IS ESSENTIAL TO DUKE'S WILLINGNESS**
3 **TO PROCEED WITH THE LEE STATION?**

4 A. Because the financial community has been unwilling to assume the risks of
5 new nuclear units since the late 1970s, after which three decades passed
6 without the filing of a new construction permit request with the Nuclear
7 Regulatory Commission. In recent years, Congress has shifted some of this
8 risk to taxpayers in the form of incentives enacted in 2005 and 2007 and
9 some states have indeed altered the balance between investors and
10 customers as to some of the risks of power plant construction.

11 The nuclear industry has been quite forthcoming in stating in many forums
12 that under existing law they would not be interested in building new nuclear
13 units. For one flamboyant example, Thomas Capps, CEO of Dominion
14 Energy said in 2005, before the passage of any of the aforementioned
15 legislation, "We aren't going to build a nuclear plant anytime soon. Standard
16 & Poor's and Moody's would have a heart attack. And my chief financial
17 officer would, too" (NY Times, May 2, 2005). In addition, Duke CEO, Jim
18 Rogers told North Carolina regulators in January, 2007 that getting
19 permission from the state to recover development costs from customers if the
20 plant were not built was essential to Duke's decision to proceed with a
21 nuclear power plant.

22 In short, despite South Carolina's relatively successful nuclear history, Duke
23 was unwilling to accept the investor risk that existed before the new statute

1 was enacted. It wanted a significant shift of risk to the customers, and the
2 new law provides it.

3 It was, of course, the Legislature's prerogative to do this. However, the shift
4 creates additional challenges if the Commission is to be sure that the
5 customers are not exposed to large and open-ended liabilities, to be sure that
6 new nuclear plants really are the best alternative and to be sure that investors
7 are not compensated for bearing risks that have been transferred to the
8 customers.

9
10 **Q. IS MR. WRIGHT CORRECT THAT – WHATEVER THE EFFECT OF THE**
11 **STAUTE AS A WHOLE – THE CURRENT PROCEEDING AND THE**
12 **REQUESTED DETERMINATION DO NOT ACTUALLY CHANGE THE**
13 **BALANCE OF RISK BETWEEN INVESTORS AND CUSTOMERS?**

14 A. Mr. Wright's position on this issue is irreconcilable with the plain language of
15 the new statute combined with Duke's request in this proceeding. Duke is
16 asking the Commission "for approval of its decision to incur pre-construction
17 costs of up to \$230 million through December 31, 2009 for the Company's
18 proposed William States Lee, III Nuclear Station". If the Commission makes
19 the requested determination, the new law requires that

20 Unless the record in a subsequent proceeding shows that individual items
21 of cost were imprudently incurred, or that other decisions subsequent to
22 the issuance of a project development order were imprudently made
23 considering the information available to the utility at the time they were
24 made, then all the preconstruction costs incurred for the potential nuclear
25 plant must be properly included in the utility's plant-in-service and must be
26 recoverable fully through rates in future proceedings under this chapter.
27

1 Even if the Lee station is subsequently cancelled – and approximately half of
2 all of the construction permits ever issued by the NRC ended in cancellations,
3 to say nothing of projects cancelled before construction permits were issued –
4 the company is assured that no disallowances can be ordered on the ground
5 that, for example, property must be “used and useful” if customers are to pay
6 for it.

7 Instead, the new law essentially mandates that expenditures found to be
8 prudent are also to be deemed used and useful. This alone is a significant
9 risk shift attributable to the project development order under the new statutory
10 regime, because customers can no longer challenge any part of South
11 Carolina’s share of the \$230 million on the ground that investment is not used
12 and useful, as they might have when Duke cancelled the six Cherokee and
13 Perkins units in the early 1980s

14 In addition, as I demonstrated in my earlier testimony, the ongoing audits
15 contemplated by the new statute cannot hope to find types of expensive
16 imprudence that only reveal themselves years after the fact. The reason for
17 this is not because the Commission lacks statutory authority to disallow
18 imprudence. It is because the resource requirements of applying effective
19 scrutiny against some types of imprudence in the year that it occurs are
20 impossible to meet. The auditors would need resources comparable to those
21 of the utility itself and – impossibly – they would need perfect foresight as to
22 which of many thousands of decisions and practices were likely to produce
23 failures years in the future. As I demonstrate below, the issue here is not Mr.

1 Wright's alleged misuse of hindsight; it is his presumption of regulatory
2 foresight so perfect as to constitute prophecy.

3
4 **Q. ISN'T THE "USED AND USEFUL" RULE AN ABERRATION THAT**
5 **DOESN'T OFFER REAL PROTECTION TO CUSTOMERS IN THE**
6 **TWENTY-FIRST CENTURY?**

7 A. Not at all. The requirement that a utility rate base include only property that is
8 "used and useful" is found in the laws of most states. In the 1980s across the
9 U.S., large expenditures that were not found to have been imprudent were
10 disallowed because they were not considered used and useful. This result
11 was sustained in the 1989 Duquesne Light Company case, which was the last
12 major U.S. Supreme Court review of the constitutionality of state utility rate
13 setting practices. South Carolina's adoption of a statutory requirement that all
14 prudent investment must be charged to the customers is therefore a
15 fundamental shift away from the standard regulatory balance of risk.

16 In 1981 the D.C. Circuit Court of Appeals set forth the balance of risks
17 produced by the used and useful principle:

18 The general rule recognized by this court is that expenditure
19 for an item may be included in a public utility's rate base only
20 when the item is 'used and useful' in providing service: that
21 is, current rate payers should bear only legitimate costs of
22 providing service to them.¹
23

NEPCO Municipal Rate Comm'n v. Fed. Energy Regulatory Comm'n, 668
F.2d 1327, 1333 (1981).

1 That Court later explained the balance of risks resulting from the interplay of
2 the prudence principle and the used and useful principle in an en banc
3 opinion by Judge Bork:

4 Absent that sort of deep financial hardship described in Hope, there
5 is no taking and hence no obligation to compensate, just because a
6 prudent investment has failed and produced no return.²
7

8 In his concurring opinion in the same case, Judge Starr suggested that the
9 prudent investment rule must be balanced with the used and useful rule in
10 order to avoid infringing on the constitutional rights of customers:

11 Requiring an investment to be prudent when made is one
12 safeguard imposed by regulatory authorities upon the
13 regulated business for benefit of ratepayers. As I see it, the
14 "used and useful" rule is but another such safeguard. The
15 prudence rule looks to the time of investment, whereas the
16 "used and useful" rule looks toward a later time. The two
17 principles are designed to assure that the ratepayers, whose
18 property might otherwise of course be "taken" by regulatory
19 authorities, will not necessarily be saddled with the results of
20 management's defalcations or mistakes, or as a matter of
21 simple justice, be required to pay for that which provides the
22 ratepayers with no discernible benefit. [Footnote: The
23 obvious danger in not examining both ends of the continuum
24 -- both the prudence of the investment and whether the end
25 result of the investment was used and useful -- is to build in
26 pressures for building excess generating capacity. The "used
27 and useful" rule operates as a restraining principle,
28 reminding utility managers that they must assume the risk of
29 economic forces working against an investment which is
30 prudent at the time it is made].

31 The two principles thus provide assurances that ill-guided
32 management or management that simply proves in hindsight
33 to have been wrong will not automatically be bailed out from
34 conditions which government did not force upon it. That is,
35 government forced upon the utility an obligation to provide
36 service, but that obligation, as we have seen, is the quid pro
37 quo for a protected area of service (and eminent domain

² Jersey Central Power & Light Co. v. Fed. Energy Regulatory Comm'n, 810 F.
2d 1168, 1181 n.3 (1987).

1 authority). What is fundamental is that government did not
2 force upon the utility a specific course of action for achieving
3 the mandated goal. Indeed, it would be curious if the
4 Constitution protected utility investors entirely from business
5 dangers experienced daily in the free market, the danger
6 that managers will prove to have been overly sanguine about
7 business prospects or the danger that a particular capital
8 investment will not prove successful....Yet, the prudent
9 investment rule, in full vigor, would accomplish virtually that
10 state of insulation, all in the guise of preventing government
11 from effecting a taking without just compensation.

12 For me, the prudent investment rule is, taken alone, too
13 weighted for constitutional analysis in favor of the utility. It
14 lacks balance. But so too, the "used and useful" rule, taken
15 alone, is skewed heavily in favor of ratepayers. [footnote
16 omitted] It also lacks balance....³
17

18 In defining all prudent investment as used and useful for allocating the cost of
19 future nuclear units South Carolina has chosen the path that the courts have
20 rejected. The state legislature had right to do this, but the regulatory process
21 should understand that the traditional balancing of risk has changed in
22 fundamental ways and that the Commission will have to proceed with a
23 caution proportionate to the new risks that customers will assume under the
24 new statutory framework.

25
26 **Q. MR. WRIGHT SEEMS TO REJECT THE CONCEPT OF IMPRUDENCE**
27 **THAT CANNOT BE DETECTED BY REGULATORY AUDITS IN THE YEAR**
28 **THAT IT OCCURRED. CAN YOU PROVIDE EXAMPLES?**

29 A. some types of imprudence can – as Mr. Wright suggests - be dealt with in
30 annual reviews. A project suffering from poor management that has lost the

³ Id. at 1190.

1 ability to control costs will produce symptoms that can lead to a relatively
2 rapid regulatory response. Both customers and investors will be better off if
3 such instances are dealt with as early as possible. Indeed, such regulatory
4 oversight occurred under traditional regulation.

5 However, other types of imprudence do not produce prompt and visible cost
6 consequences. Some of the most dramatic cost overruns in the history of
7 nuclear construction could not possibly have been caught under the
8 processes extolled by Mr. Wright. While the examples that I will give arose
9 during the construction cycle, they illustrate the nature of the risk shift that
10 accompanies the type of determination that the Commission is being asked to
11 make in this proceeding, a determination that has very clear and binding
12 effect for future rate decisions. I'll cite three examples, but there are many
13 more.

14 First, at Diablo Canyon in California, a misunderstanding by a subcontractor
15 over whether the two plants were identical or were mirror images of each
16 resulted in many of the seismic restraints being installed incorrectly in one of
17 the two units. The mistake was not discovered for several years after it had
18 occurred. It caused years of delay and hundreds of millions of dollars in
19 repair and replacement costs. It could not possibly have been detected in a
20 timely way by the type of audit reviews contemplated by the South Carolina
21 statute. Many expenditures arising from the mistake would have passed
22 muster under these reviews. No fraud or concealment occurred. Only a
23 prudence review informed by knowledge that a very costly set of events had

1 transpired could hope to sort out the prudent from the imprudent conduct and
2 assure that customers did not pay for imprudence. The standard is not based
3 on hindsight, but the regulator is guided to the conduct in need of review by
4 the fact that a cost overrun has occurred.

5 Similarly, the Zimmer nuclear plant in Ohio was built under an inadequate
6 quality control regimen that overlooked inadequate welding and allowed
7 substandard materials to be put in place in the plant for several years. The
8 Nuclear Regulatory Commission at first rejected allegations that the plant was
9 being built improperly. The NRC has exclusive jurisdiction over nuclear
10 safety, so South Carolina would have had difficulty investigating this issue on
11 its own even if it had the expertise and the resources to do so. Eventually
12 NRC reviews and an audit by the builders themselves discovered that –
13 despite having spent \$1.6 billion dollars – the owners could not complete the
14 plant on economically sensible terms. It was converted to a coal plant in the
15 mid-1980s. As at Diablo Canyon, many of the causes of its eventual
16 problems went undetected for years. They would not have been detected
17 before the costs were approved under a contemporaneous state PSC review
18 scheme.

19 Finally, the Midland nuclear plant in Michigan also had serious quality control
20 problems, the extent of which did not become clear until the diesel generator
21 building began to sink into the improperly compacted soil while the plant was
22 still under construction. The sinking not only revealed problems with
23 construction techniques several years in the past; it also revealed

1 inadequacies in the quality assurance and quality control framework for the
2 project as a whole. Despite the expenditure of more than \$3 billion, the
3 nuclear project was ultimately terminated and the site was converted to gas
4 fired power.

5 Each of these examples shows a type of managerial shortcoming that
6 occurred years before it was discovered. In none of the cases would reviews
7 of the type that will occur for the Lee Station have been likely to uncover the
8 shortcomings. The South Carolina Commission must undertake such
9 reviews, and they will in some instances be beneficial. However, now – on
10 the brink of a first step that will in itself commit the state to a path of greater
11 risk for customers than they bore under the traditional framework – is the time
12 for the commission to insist on accurate cost estimates and on the cost
13 control and customer protection measures that I listed in my direct testimony.

14
15 **Q. MR. WRIGHT DISPUTES THE CLAIM THAT DUKE HAS NOT FURNISHED**
16 **A COST ESTIMATE IN THIS PROCEEDING. DO YOU ACCEPT THE**
17 **PROPOSITION THAT WHATEVER INFORMATION WAS “INCLUDED IN**
18 **THE COMPANY’S LAST INTEGRATED RESOURCE PLANNING**
19 **PROCESS” CAN SERVE THIS PURPOSE.**

20
21 **A.** No, I do not. The fact is that no Duke consumer today has effective notice of
22 what the proposed units will cost. This behavior is in sharp contrast with
23 current proceedings in Florida under a statute which Mr. Wright considers

1 comparable to the new South Carolina law. In Florida this year, both Florida
2 Power and Light and Progress Energy included cost estimates and the
3 associated rate impacts for their two nuclear power plant proposals in their
4 prefiled testimony and in their petitions. These are public documents and
5 have been widely reported. They describe total rate increases of more than
6 50% ascribable to the nuclear stations alone during the years that they are
7 being built.

8 Keeping such crucial information secret undermines the integrity of the
9 regulatory process and is fundamentally inconsistent with the "regulatory
10 compact" that the utility industry asserted with such vehemence throughout
11 the 1990s.

12 When - as in South Carolina - utilities are vertically integrated and recover
13 their investments through a regulated rate base, customers have no choice
14 among suppliers. Instead, they depend on regulatory processes in which
15 they are entitled to participate to keep costs reasonable. One basic and
16 essential element of a fair regulatory process is complete notice of what is
17 under consideration in particular proceedings. An essential aspect of that
18 notice is the magnitude of potential rate and bill increases. Without notice of
19 that aspect, customers have diminished incentive to participate in such an
20 expensive and complex proceeding. Without effective customer participation,
21 the Commission is denied the benefit of public involvement, and the public is
22 denied an effective voice in a matter of potentially fundamental economic
23 importance to the state.

1 The secrecy can serve no competitive purpose because Duke will not be
2 selling the output into a competitive power market. It can serve no real
3 purpose in negotiations with nuclear power plant vendors because a range of
4 estimates can be used for this proceeding as has been done in Florida.
5 Indeed, findings by this commission as to cost containment or maximum
6 allowable costs might strengthen Duke's hand in such negotiations.

7 In the "public convenience and necessity" hearings that were used to approve
8 power plant construction in the 1970s, I am unaware of any cases in which
9 the estimated cost of the plant was concealed from the public.
10

11 **Q. MR. WRIGHT SUGGESTS AT SEVERAL POINTS THAT YOU ARE USING**
12 **A PRUDENCE STANDARD THAT IMPROPERLY INVOLVES HINDSIGHT.**
13 **IS THIS CORRECT?**

14 A. No, it isn't. This part of Mr. Wright's testimony is perplexing. When asked
15 directly if I was "urging a prudence review based on hindsight rather than one
16 based on the information available at the time that the decision in question is
17 being made", I responded that "Hindsight in the form of damaging rate
18 impacts should be used to identify the decisions and practices that need to be
19 reviewed, not to assess their prudence. Once these decisions and practices
20 have been identified, they should indeed be reviewed in light of whether the
21 company undertook them with the level of care appropriate to decisions of
22 that magnitude in light of the information reasonably available at the time"
23 (Bradford testimony, pp. 9, 10).

1 The National Regulatory Research Institute – the research affiliate of the
2 National Association of Regulatory Utility Commissioners is clear that the
3 traditional prudence review “is backward looking without applying hindsight to
4 decisions made in the past”. These words appeared in a useful volume
5 written in 1985, a year when Mr. Wright and I were both involved in utility
6 regulation (The Prudent Investment Test in the 1980s, p. 61).

7 I’ve probably voted on at least a hundred cases in which prudence was an
8 issue, including a few involving nuclear need and construction decisions. I
9 have never used a standard based on hindsight. As nearly as I can tell, Mr.
10 Wright and I do not disagree as to this aspect of the prudence test.

11
12 **Q: IN SUM, WHAT IS YOUR OPINION AS TO WHETHER DUKE HAS**
13 **DEMONSTRATED “BY A PREPONDERANCE OF EVIDENCE THAT THE**
14 **DECISION TO INCUR PRECONSTRUCTION COSTS FOR THE (WILLIAM**
15 **STATES LEE NUCLEAR STATION) IS PRUDENT?”**

16 A. Duke has not made such a demonstration. Nor can it do so without furnishing
17 its best current cost estimate in a manner that informs the public of the likely
18 rate and bill impacts associated with building the Lee Station. Such a
19 demonstration should also include a full and candid disclosure of the
20 uncertainties and risks associated with the cost estimates and the measures
21 that will be taken to assure that the customers are not assigned a
22 commitment to costs that are neither limited nor foreseeable.

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DOCKET NO. 2007-440-E

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for Approval of Decision to Incur Nuclear)
Generation Pre-Construction Costs)

Certificate of Service

I hereby certify that on this date I served the above Surrebuttal Testimony of Peter A. Bradford by e-mail and by placing copies of same in the United States Mail, first-class postage prepaid, addressed to:

Kodwo Gharthey-Tagoe

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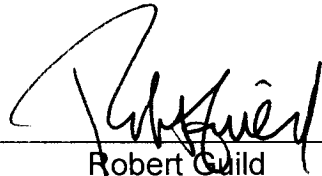
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A handwritten signature in black ink, appearing to read "R. Guild", is written over a horizontal line.

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April 13, 2008